

## S&MA Mission Services Technical Directive

<b>Control No:</b> 0137	<b>Org. Code:</b> QD01	<b>Project Code:</b> TREND	<b>Contract #:</b> NAS800179
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**Originator:**  
QD01/T. Hamm

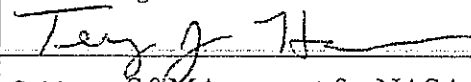
**Date:**  
7/22/2004

**Office Manager's Signature:**

**Date:**

**COTR's Signature:**

**Date:**



7-22-04

**Subject:** S&MA support for NASA Engineering and Safety Center (NESC) Data Mining & Trending / Recurring Anomaly Analysis

**Task Description:**

Develop and perform database query, analysis, and trending techniques and processes on MSFC recurring anomalies in the MSFC PRACA data system, nonconformance systems, and other related data (including performance, reliability, and other available parameters) in support of the NESC data mining and trending of recurring anomalies task. Task relates to the MSFC Shuttle Elements (ET, RSRM, SRB, and SSME). Task will utilize statistical analysis, SQL-based data query software usage, data mining, and engineering analysis applicable to shuttle systems and/or problem and nonconformance processing. Format of data will be best suitable for depicting particular trend or analysis.

**Deliverables:**

Task activities will be in accordance with the S&MA NESC Lead direction.

**Duration (If time limited task):**

Task is effective from 7/04 through 9/30/05.

**Report Progress To:** S&MA NESC Lead - Terry Hamm

**Frequency of Report:** As assigned